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PATENT

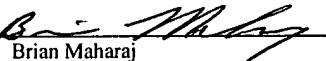
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: SCHLIEVERT ET AL. Examiner: L. LEE
Serial No.: 09/308,830 Group Art Unit: 1645
Filed: AUGUST 4, 1999 Docket No.: 600.346USWO
Title: MUTANTS OF STREPTOCOCCAL TOXIN A AND METHODS OF USE

CERTIFICATE UNDER 37 CFR 1.10

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I hereby certify that this paper or fee is being deposited with the United States Postal Service 'Express Mail Post Office To Addressee' service under 37 CFR 1.10 on the date indicated above and is addressed to the Assistant Commissioner of Patents and Trademarks, Washington, D.C. 20231.

By: 
Name: Brian Maharaj

AMENDMENT & RESPONSE

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

In response to the final Office Action mailed October 3, 2000 and to the telephone interview with the Examiner on January 11, 2001, please enter this amendment and consider the following remarks for the patent application identified above.

In the Claims

Please cancel claims 1, 3-9, 12-14 and 17-29 without prejudice. Please add and consider new claims 30-101 as follows.

~ 30. (New) A mutant SPE-A toxin:

the mutant comprising a combination of amino acid substitutions in an N-terminal alpha helix, in a domain B beta strand comprising residues 41 through 47 of SPE-A, or at a cysteine;